



424319

VAM Labs, Inc.

1106 Camellia Drive**Munster, IN 46408****PHONE (219) 924-7877**

May 8, 2008

City of East Chicago
Department of Redevelopment
East Chicago, IN 46312

**Re: 4802-04 Kennedy Avenue – Soil Borings**

Attention: John Artis

On April 23, 2008 a crew visited the above referenced location to conduct a subsurface soil investigation.

Soil borings were taken at four locations to determine the water table level and the type of material used as backfill. Each boring was drilled to a depth of twelve feet below ground level.

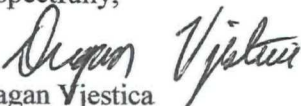
One composite soil sample from each boring was analyzed for contaminants. Each sample was analyzed for Pesticides, PCB's Total Metals, Semi-Volatile Organics, Volatile Organics, PH and percent moisture

The subsurface investigation was conducted in accordance with procedures outlined in American Society of Testing Materials (ASTM). Soil boring logs and analytical results are on the following pages.

Fill material was consistent in all borings. Fill material included black dirt and sand (fine to coarse grained). Ground water was found at a depth of seven to nine feet below ground level (BGL).

Analytical results were compared to Residential Closure Levels found in Appendix 1, Table A of the Indiana Department of Environmental Management (IDEM) RISC Technical Guide. All results were below the acceptable residential levels.

Respectfully,


Dragan Vjestica
Director

cc:file

Soil Boring 4802-1

Date Drilled: April 23, 2008

Drilling company: Enviro Dynamics

Drilling Rig: GeoProbe 6000

Weather: 70 F, Sunny

Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt

3-12 feet is sand (fine to coarse grained).

Soil Boring 4802-2

Date Drilled: April 23, 2008

Drilling company: Enviro Dynamics

Drilling Rig: GeoProbe 6000

Weather: 70 F, Sunny

Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt

3-12 feet is sand (fine to coarse grained).

Soil Boring 4802-3

Date Drilled: April 23, 2008

Drilling Company: Enviro Dynamics

Drilling Rig: GeoProbe 6000

Weather: 70 F, Sunny

Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt

3-12 feet is sand (fine to coarse grained).

Soil Boring 4802-4

Date Drilled: April 23, 2008

Drilling Company: Enviro Dynamics

Drilling Rig: GeoProbe 6000

Weather: 70 F, Sunny

Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt

3-12 feet is sand (fine to coarse grained).



May 01, 2008

Dragan Vjestica
Vam Labs
1106 Camellia Dr.
Munster, IN 46321

Work Order No.: ME0804959

RE: 4802-04 Kennedy / East Chicago, IN

Dear Dragan Vjestica:

Microbac Laboratories, Inc. received 4 samples on 4/24/2008 2:15:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Cara Simaga".

Cara A. Simaga
Project Manager

Enclosures



WORK ORDER SAMPLE SUMMARY

Date: *Thursday, May 01, 2008*

CLIENT: Vam Labs
Project: 4802-04 Kennedy / East Chicago, IN
Lab Order: ME0804959

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0804959-01A	4802-1		4/23/2008 9:10:00 AM	4/24/2008
ME0804959-02A	4802-2		4/23/2008 9:30:00 AM	4/24/2008
ME0804959-03A	4802-3		4/23/2008 9:50:00 AM	4/24/2008
ME0804959-04A	4802-4		4/23/2008 10:30:00 AM	4/24/2008

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-1
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-01
 Collection Date: 04/23/08 09:10
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PESTICIDES/PCBS

Method: SW8081A/8082

Prep Date/Time: 04/29/08 06:42 Analyst: JLW

4,4'-DDD	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
4,4'-DDE	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
4,4'-DDT	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aldrin	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Alpha-BHC	A	ND	0.0079	mg/Kg-dry	1	04/29/08 23:07
Beta-BHC	A	ND	0.020	mg/Kg-dry	1	04/29/08 23:07
Chlordane	A	ND	0.39	mg/Kg-dry	1	04/29/08 23:07
delta-BHC	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Dieldrin	A	ND	0.0019	mg/Kg-dry	1	04/29/08 23:07
Endosulfan I	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Endosulfan II	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Endosulfan Sulfate	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Endrin	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Endrin Aldehyde	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Endrin Ketone	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Gamma-BHC	A	ND	0.0079	mg/Kg-dry	1	04/29/08 23:07
Heptachlor	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Heptachlor Epoxide	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Methoxychlor	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Toxaphene	A	ND	0.39	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1016	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1221	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1232	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1242	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1248	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1254	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1260	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1262	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Aroclor 1268	A	ND	0.039	mg/Kg-dry	1	04/29/08 23:07
Surr: Tetrachloro-m-xylene	S	85.0	5-165	%REC	1	04/29/08 23:07
Surr: Decachlorobiphenyl	S	95.0	5-222	%REC	1	04/29/08 23:07

TOTAL METALS

Method: SW6010B

Prep Date/Time: 04/25/08 10:00 Analyst: AVC

Arsenic	A	2.8	0.58	mg/Kg-dry	1	04/25/08 19:02
Barium	A	30	0.12	mg/Kg-dry	1	04/25/08 19:02
Cadmium	A	0.22	0.12	mg/Kg-dry	1	04/25/08 19:02
Chromium	A	4.7	0.18	mg/Kg-dry	1	04/25/08 19:02
Lead	A	46	0.44	mg/Kg-dry	1	04/25/08 19:02
Selenium	A	ND	1.8	mg/Kg-dry	1	04/25/08 19:02
Silver	A	ND	0.58	mg/Kg-dry	1	04/25/08 19:02

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-1
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-01
 Collection Date: 04/23/08 09:10
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TOTAL METALS Method: SW7471A Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Mercury	A	0.38	0.038		mg/Kg-dry	1	04/25/08 13:04
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SEMIVOLATILE ORGANICS Method: SW8270C Prep Date/Time: 04/26/08 15:05 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Bis(2-ethylhexyl)phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Acenaphthene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Acenaphthylene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Acetophenone	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Aniline	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Anthracene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzidine	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
Benzo[a]anthracene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzo[a]pyrene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzo[b]fluoranthene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzo[g,h,i]perylene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzo[k]fluoranthene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Benzoic acid	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
Benzyl alcohol	A	ND	0.79		mg/Kg-dry	1	04/28/08 19:11
Bis(2-chloroethoxy)methane	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Bis(2-chloroethyl)ether	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2,2'-oxybis(1-chloropropane)	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Butyl benzyl phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Carbazole	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
4-Chloro-3-methylphenol	A	ND	0.79		mg/Kg-dry	1	04/28/08 19:11
4-Chloroaniline	A	ND	0.79		mg/Kg-dry	1	04/28/08 19:11
2-Chloronaphthalene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2-Chlorophenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
4-Chlorophenyl phenyl ether	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Chrysene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Dibenz[a,h]anthracene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Dibenzofuran	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
1,2-Dichlorobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
1,3-Dichlorobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
1,4-Dichlorobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
3,3'-Dichlorobenzidine	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
2,4-Dichlorophenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2,6-Dichlorophenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Diethyl phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Dimethyl phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2,4-Dimethylphenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
Client Project: 4802-04 Kennedy / East Chicago, IN
Client Sample ID: 4802-1
Sample Description:
Sample Matrix: Solid

Work Order / ID: ME0804959-01
Collection Date: 04/23/08 09:10
Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
SEMIVOLATILE ORGANICS							
		Method: SW8270C	Prep Date/Time: 04/26/08 15:05 Analyst: BEM				
Di-n-butyl phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Di-n-octyl phthalate	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
4,6-Dinitro-2-methylphenol	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
2,4-Dinitrophenol	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
2,4-Dinitrotoluene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2,6-Dinitrotoluene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
1,2-Diphenyl-hydrazine	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Fluoranthene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Fluorene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Hexachlorobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Hexachlorobutadiene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Hexachlorocyclopentadiene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Hexachloroethane	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Indeno[1,2,3cd]pyrene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Isophorone	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2-Methylnaphthalene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2-Methylphenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
3/4-Methylphenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2-Nitroaniline	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
3-Nitroaniline	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
4-Nitroaniline	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
2-Nitrophenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
4-Nitrophenol	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
N-Nitrosodi-n-propylamine	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
N-Nitrosodimethylamine	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
N-Nitrosodiphenylamine	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Naphthalene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Nitrobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Pentachlorophenol	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
Phenanthrene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Phenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Pyrene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Pyridine	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
1,2,4-Trichlorobenzene	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
2,4,5-Trichlorophenol	A	ND	1.9		mg/Kg-dry	1	04/28/08 19:11
2,4,6-Trichlorophenol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Total Cresol	A	ND	0.39		mg/Kg-dry	1	04/28/08 19:11
Surr: Nitrobenzene-d5	S	47.9	10-139		%REC	1	04/28/08 19:11
Surr: 2-Fluorobiphenyl	S	50.6	10-124		%REC	1	04/28/08 19:11
Surr: Terphenyl-d14	S	57.3	10-157		%REC	1	04/28/08 19:11
Surr: Phenol-d5	S	50.8	10-97.5		%REC	1	04/28/08 19:11

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-1
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-01
 Collection Date: 04/23/08 09:10
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/26/08 15:05 Analyst: BEM

Surr: 2-Fluorophenol	S	46.7	10-91.4	%REC	1	04/28/08 19:11
Surr: 2,4,6-Tribromophenol	S	47.4	10-107	%REC	1	04/28/08 19:11

VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	0.060	mg/Kg-dry	1	04/28/08 13:58
Acrolein	A	ND	0.12	mg/Kg-dry	1	04/28/08 13:58
Acrylonitrile	A	ND	0.12	mg/Kg-dry	1	04/28/08 13:58
Benzene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Bromodichloromethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Bromoform	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Bromomethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
2-Butanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Carbon Disulfide	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Carbon tetrachloride	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Chlorobenzene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Chloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Chloroform	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Chloromethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Dibromochloromethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,1-Dichloroethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,2-Dichloroethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,1-Dichloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
cis-1,2-Dichloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
trans-1,2-Dichloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,2-Dichloropropane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
cis-1,3-Dichloropropene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
trans-1,3-Dichloropropene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Ethylbenzene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
2-Hexanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
4-Methyl-2-Pentanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Methyl-t-Butyl Ether	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Methylene chloride	A	ND	0.024	mg/Kg-dry	1	04/28/08 13:58
Styrene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,1,1,2-Tetrachloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
1,1,2,2-Tetrachloroethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Tetrachloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Toluene	A	0.0079	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,1,1-Trichloroethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
1,1,2-Trichloroethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Trichloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
Client Project: 4802-04 Kennedy / East Chicago, IN
Client Sample ID: 4802-1
Sample Description:
Sample Matrix: Solid

Work Order / ID: ME0804959-01
Collection Date: 04/23/08 09:10
Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Trichlorofluoromethane	A	ND	0.012		mg/Kg-dry	1	04/28/08 13:58
Vinyl Acetate	A	ND	0.012		mg/Kg-dry	1	04/28/08 13:58
Vinyl chloride	A	ND	0.012		mg/Kg-dry	1	04/28/08 13:58
m,p-Xylene	A	ND	0.0060		mg/Kg-dry	1	04/28/08 13:58
o-Xylene	A	ND	0.0060		mg/Kg-dry	1	04/28/08 13:58
Total Xylenes	A	ND	0.0060		mg/Kg-dry	1	04/28/08 13:58
Surr: 4-Bromofluorobenzene	S	86.9	57.4-135		%REC	1	04/28/08 13:58
Surr: Dibromofluoromethane	S	108	63.5-139		%REC	1	04/28/08 13:58
Surr: 1,2-Dichloroethane-d4	S	110	51.7-162		%REC	1	04/28/08 13:58
Surr: Toluene-d8	S	100	66.6-143		%REC	1	04/28/08 13:58

CORROSIVITY BY PH

Method: SW9045C

Prep Date/Time:

Analyst: RJC

pH	A	8.3	0.1		pH Units	1	04/28/08 20:45
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PERCENT MOISTURE

Method: 2540B_18ED

Prep Date/Time:

Analyst: SMA

Percent Moisture	A	16	0.10		WT%	1	04/28/08 16:38
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ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-2
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-02
 Collection Date: 04/23/08 09:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PESTICIDES/PCBS

Method: SW8081A/8082

Prep Date/Time: 04/29/08 06:42 Analyst: JLW

4,4'-DDD	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
4,4'-DDE	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
4,4'-DDT	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aldrin	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Alpha-BHC	A	ND	0.0083		mg/Kg-dry	1	04/29/08 23:34
Beta-BHC	A	ND	0.021		mg/Kg-dry	1	04/29/08 23:34
Chlordane	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:34
delta-BHC	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Dieldrin	A	ND	0.0020		mg/Kg-dry	1	04/29/08 23:34
Endosulfan I	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Endosulfan II	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Endosulfan Sulfate	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Endrin	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Endrin Aldehyde	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Endrin Ketone	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Gamma-BHC	A	ND	0.0083		mg/Kg-dry	1	04/29/08 23:34
Heptachlor	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Heptachlor Epoxide	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Methoxychlor	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Toxaphene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1016	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1221	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1232	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1242	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1248	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1254	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1260	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1262	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1268	A	ND	0.041		mg/Kg-dry	1	04/29/08 23:34
Surr: Tetrachloro-m-xylene	S	65.0	5-165		%REC	1	04/29/08 23:34
Surr: Decachlorobiphenyl	S	90.0	5-222		%REC	1	04/29/08 23:34

TOTAL METALS

Method: SW6010B

Prep Date/Time: 04/25/08 10:00 Analyst: AVC

Arsenic	A	1.7	0.58		mg/Kg-dry	1	04/25/08 19:07
Barium	A	14	0.12		mg/Kg-dry	1	04/25/08 19:07
Cadmium	A	ND	0.12		mg/Kg-dry	1	04/25/08 19:07
Chromium	A	3.4	0.18		mg/Kg-dry	1	04/25/08 19:07
Lead	A	23	0.44		mg/Kg-dry	1	04/25/08 19:07
Selenium	A	ND	1.8		mg/Kg-dry	1	04/25/08 19:07
Silver	A	ND	0.58		mg/Kg-dry	1	04/25/08 19:07

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-2
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-02
 Collection Date: 04/23/08 09:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TOTAL METALS

Method: SW7471A

Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Mercury	A	0.27	0.050		mg/Kg-dry	1	04/25/08 13:06
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Bis(2-ethylhexyl)phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Acenaphthene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Acenaphthylene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Acetophenone	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Aniline	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Anthracene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzidine	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
Benzo[a]anthracene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzo[a]pyrene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzo[b]fluoranthene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzo[g,h,i]perylene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzo[k]fluoranthene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Benzoic acid	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
Benzyl alcohol	A	ND	0.83		mg/Kg-dry	1	04/29/08 23:10
Bis(2-chloroethoxy)methane	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Bis(2-chloroethyl)ether	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2,2'-oxybis(1-chloropropane)	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Butyl benzyl phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Carbazole	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
4-Chloro-3-methylphenol	A	ND	0.83		mg/Kg-dry	1	04/29/08 23:10
4-Chloroaniline	A	ND	0.83		mg/Kg-dry	1	04/29/08 23:10
2-Chloronaphthalene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2-Chlorophenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
4-Chlorophenyl phenyl ether	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Chrysene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Dibenz[a,h]anthracene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Dibenzofuran	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
1,2-Dichlorobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
1,3-Dichlorobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
1,4-Dichlorobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
3,3'-Dichlorobenzidine	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
2,4-Dichlorophenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2,6-Dichlorophenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Diethyl phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Dimethyl phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2,4-Dimethylphenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-2
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-02
 Collection Date: 04/23/08 09:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Di-n-butyl phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Di-n-octyl phthalate	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
4,6-Dinitro-2-methylphenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
2,4-Dinitrophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
2,4-Dinitrotoluene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2,6-Dinitrotoluene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
1,2-Diphenyl-hydrazine	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Fluoranthene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Fluorene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Hexachlorobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Hexachlorobutadiene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Hexachlorocyclopentadiene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Hexachloroethane	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Indeno[1,2,3cd]pyrene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Isophorone	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2-Methylnaphthalene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2-Methylphenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
3/4-Methylphenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
3-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
4-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
2-Nitrophenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
4-Nitrophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
N-Nitrosodi-n-propylamine	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
N-Nitrosodimethylamine	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
N-Nitrosodiphenylamine	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Naphthalene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Nitrobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Pentachlorophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
Phenanthrene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Phenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Pyrene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Pyridine	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
1,2,4-Trichlorobenzene	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
2,4,5-Trichlorophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:10
2,4,6-Trichlorophenol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Total Cresol	A	ND	0.41		mg/Kg-dry	1	04/29/08 23:10
Surr: Nitrobenzene-d5	S	36.6	10-139		%REC	1	04/29/08 23:10
Surr: 2-Fluorobiphenyl	S	41.7	10-124		%REC	1	04/29/08 23:10
Surr: Terphenyl-d14	S	42.2	10-157		%REC	1	04/29/08 23:10
Surr: Phenol-d5	S	31.7	10-97.5		%REC	1	04/29/08 23:10

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-2
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-02
 Collection Date: 04/23/08 09:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Surr: 2-Fluorophenol	S	32.0	10-91.4	%REC	1	04/29/08 23:10
Surr: 2,4,6-Tribromophenol	S	42.5	10-107	%REC	1	04/29/08 23:10

VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	0.062	mg/Kg-dry	1	04/28/08 14:33
Acrolein	A	ND	0.12	mg/Kg-dry	1	04/28/08 14:33
Acrylonitrile	A	ND	0.12	mg/Kg-dry	1	04/28/08 14:33
Benzene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromodichloromethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromoform	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromomethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
2-Butanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Carbon Disulfide	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Carbon tetrachloride	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chlorobenzene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Chloroform	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chloromethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Dibromochloromethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1-Dichloroethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,2-Dichloroethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1-Dichloroethene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
cis-1,2-Dichloroethene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
trans-1,2-Dichloroethene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,2-Dichloropropane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
cis-1,3-Dichloropropene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
trans-1,3-Dichloropropene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Ethylbenzene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
2-Hexanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
4-Methyl-2-Pentanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Methyl-t-Butyl Ether	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Methylene chloride	A	ND	0.025	mg/Kg-dry	1	04/28/08 14:33
Styrene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,1,2-Tetrachloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
1,1,2,2-Tetrachloroethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Tetrachloroethene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Toluene	A	0.013	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,1-Trichloroethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,2-Trichloroethane	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Trichloroethene	A	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client:	Vam Labs	Work Order / ID:	ME0804959-02
Client Project:	4802-04 Kennedy / East Chicago, IN	Collection Date:	04/23/08 09:30
Client Sample ID:	4802-2	Date Received:	04/24/08 14:15
Sample Description:			
Sample Matrix:	Solid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Trichlorofluoromethane	A	ND	0.012		mg/Kg-dry	1	04/28/08 14:33
Vinyl Acetate	A	ND	0.012		mg/Kg-dry	1	04/28/08 14:33
Vinyl chloride	A	ND	0.012		mg/Kg-dry	1	04/28/08 14:33
m,p-Xylene	A	ND	0.0062		mg/Kg-dry	1	04/28/08 14:33
o-Xylene	A	ND	0.0062		mg/Kg-dry	1	04/28/08 14:33
Total Xylenes	A	ND	0.0062		mg/Kg-dry	1	04/28/08 14:33
Surr: 4-Bromofluorobenzene	S	82.8	57.4-135		%REC	1	04/28/08 14:33
Surr: Dibromofluoromethane	S	106	63.5-139		%REC	1	04/28/08 14:33
Surr: 1,2-Dichloroethane-d4	S	108	51.7-162		%REC	1	04/28/08 14:33
Surr: Toluene-d8	S	104	66.6-143		%REC	1	04/28/08 14:33

CORROSIVITY BY PH

Method: SW9045C

Prep Date/Time:

Analyst: RJC

pH	A	8.6	0.1		pH Units	1	04/28/08 20:45
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PERCENT MOISTURE

Method: 2540B_18ED

Prep Date/Time:

Analyst: SMA

Percent Moisture	A	20	0.10		WT%	1	04/28/08 16:38
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ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-3
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-03
 Collection Date: 04/23/08 09:50
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PESTICIDES/PCBS

Method: SW8081A/8082

Prep Date/Time: 04/29/08 06:42 Analyst: JLW

4,4'-DDD	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
4,4'-DDE	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
4,4'-DDT	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aldrin	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Alpha-BHC	A	ND	0.0080		mg/Kg-dry	1	04/30/08 00:02
Beta-BHC	A	ND	0.021		mg/Kg-dry	1	04/30/08 00:02
Chlordane	A	ND	0.40		mg/Kg-dry	1	04/30/08 00:02
delta-BHC	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Dieldrin	A	ND	0.0020		mg/Kg-dry	1	04/30/08 00:02
Endosulfan I	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Endosulfan II	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Endosulfan Sulfate	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Endrin	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Endrin Aldehyde	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Endrin Ketone	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Gamma-BHC	A	ND	0.0080		mg/Kg-dry	1	04/30/08 00:02
Heptachlor	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Heptachlor Epoxide	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Methoxychlor	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Toxaphene	A	ND	0.40		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1016	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1221	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1232	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1242	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1248	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1254	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1260	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1262	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Aroclor 1268	A	ND	0.040		mg/Kg-dry	1	04/30/08 00:02
Surr: Tetrachloro-m-xylene	S	70.0	5-165		%REC	1	04/30/08 00:02
Surr: Decachlorobiphenyl	S	85.0	5-222		%REC	1	04/30/08 00:02

TOTAL METALS

Method: SW6010B

Prep Date/Time: 04/25/08 10:00 Analyst: AVC

Arsenic	A	4.8	0.57		mg/Kg-dry	1	04/25/08 19:12
Barium	A	12	0.11		mg/Kg-dry	1	04/25/08 19:12
Cadmium	A	ND	0.11		mg/Kg-dry	1	04/25/08 19:12
Chromium	A	3.2	0.17		mg/Kg-dry	1	04/25/08 19:12
Lead	A	18	0.43		mg/Kg-dry	1	04/25/08 19:12
Selenium	A	ND	1.7		mg/Kg-dry	1	04/25/08 19:12
Silver	A	ND	0.57		mg/Kg-dry	1	04/25/08 19:12

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-3
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-03
 Collection Date: 04/23/08 09:50
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TOTAL METALS

Method: SW7471A

Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Mercury	A	ND	0.046		mg/Kg-dry	1	04/25/08 13:10
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Bis(2-ethylhexyl)phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Acenaphthene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Acenaphthylene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Acetophenone	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Aniline	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Anthracene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzidine	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
Benzo[a]anthracene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzo[a]pyrene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzo[b]fluoranthene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzo[g,h,i]perylene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzo[k]fluoranthene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Benzoic acid	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
Benzyl alcohol	A	ND	0.80		mg/Kg-dry	1	04/29/08 23:37
Bis(2-chloroethoxy)methane	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Bis(2-chloroethyl)ether	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2,2'-oxybis(1-chloropropane)	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Butyl benzyl phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Carbazole	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
4-Chloro-3-methylphenol	A	ND	0.80		mg/Kg-dry	1	04/29/08 23:37
4-Chloroaniline	A	ND	0.80		mg/Kg-dry	1	04/29/08 23:37
2-Chloronaphthalene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2-Chlorophenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
4-Chlorophenyl phenyl ether	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Chrysene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Dibenz[a,h]anthracene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Dibenzofuran	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
1,2-Dichlorobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
1,3-Dichlorobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
1,4-Dichlorobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
3,3'-Dichlorobenzidine	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
2,4-Dichlorophenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2,6-Dichlorophenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Diethyl phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Dimethyl phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2,4-Dimethylphenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
Client Project: 4802-04 Kennedy / East Chicago, IN
Client Sample ID: 4802-3
Sample Description:
Sample Matrix: Solid

Work Order / ID: ME0804959-03
Collection Date: 04/23/08 09:50
Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Di-n-butyl phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Di-n-octyl phthalate	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
4,6-Dinitro-2-methylphenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
2,4-Dinitrophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
2,4-Dinitrotoluene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2,6-Dinitrotoluene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
1,2-Diphenyl-hydrazine	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Fluoranthene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Fluorene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Hexachlorobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Hexachlorobutadiene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Hexachlorocyclopentadiene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Hexachloroethane	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Indeno[1,2,3cd]pyrene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Isophorone	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2-Methylnaphthalene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2-Methylphenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
3/4-Methylphenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
3-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
4-Nitroaniline	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
2-Nitrophenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
4-Nitrophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
N-Nitrosodi-n-propylamine	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
N-Nitrosodimethylamine	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
N-Nitrosodiphenylamine	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Naphthalene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Nitrobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Pentachlorophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
Phenanthrene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Phenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Pyrene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Pyridine	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
1,2,4-Trichlorobenzene	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
2,4,5-Trichlorophenol	A	ND	2.0		mg/Kg-dry	1	04/29/08 23:37
2,4,6-Trichlorophenol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Total Cresol	A	ND	0.40		mg/Kg-dry	1	04/29/08 23:37
Surr: Nitrobenzene-d5	S	57.9	10-139		%REC	1	04/29/08 23:37
Surr: 2-Fluorobiphenyl	S	78.6	10-124		%REC	1	04/29/08 23:37
Surr: Terphenyl-d14	S	71.6	10-157		%REC	1	04/29/08 23:37
Surr: Phenol-d5	S	60.9	10-97.5		%REC	1	04/29/08 23:37

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-3
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-03
 Collection Date: 04/23/08 09:50
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Surr: 2-Fluorophenol	S	57.9	10-91.4	%REC	1	04/29/08 23:37
Surr: 2,4,6-Tribromophenol	S	77.0	10-107	%REC	1	04/29/08 23:37

VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	0.061	mg/Kg-dry	1	04/28/08 15:08
Acrolein	A	ND	0.12	mg/Kg-dry	1	04/28/08 15:08
Acrylonitrile	A	ND	0.12	mg/Kg-dry	1	04/28/08 15:08
Benzene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Bromodichloromethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Bromoform	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Bromomethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
2-Butanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Carbon Disulfide	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Carbon tetrachloride	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Chlorobenzene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Chloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Chloroform	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Chloromethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Dibromochloromethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1-Dichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,2-Dichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1-Dichloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
cis-1,2-Dichloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
trans-1,2-Dichloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,2-Dichloropropane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
cis-1,3-Dichloropropene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
trans-1,3-Dichloropropene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Ethylbenzene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
2-Hexanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
4-Methyl-2-Pentanone	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Methyl-t-Butyl Ether	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Methylene chloride	A	ND	0.024	mg/Kg-dry	1	04/28/08 15:08
Styrene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,1,2-Tetrachloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
1,1,2,2-Tetrachloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Tetrachloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Toluene	A	0.016	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,1-Trichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,2-Trichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Trichloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
Client Project: 4802-04 Kennedy / East Chicago, IN
Client Sample ID: 4802-3
Sample Description:
Sample Matrix: Solid

Work Order / ID: ME0804959-03
Collection Date: 04/23/08 09:50
Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Trichlorofluoromethane	A	ND	0.012		mg/Kg-dry	1	04/28/08 15:08
Vinyl Acetate	A	ND	0.012		mg/Kg-dry	1	04/28/08 15:08
Vinyl chloride	A	ND	0.012		mg/Kg-dry	1	04/28/08 15:08
m,p-Xylene	A	ND	0.0061		mg/Kg-dry	1	04/28/08 15:08
o-Xylene	A	ND	0.0061		mg/Kg-dry	1	04/28/08 15:08
Total Xylenes	A	ND	0.0061		mg/Kg-dry	1	04/28/08 15:08
Surr: 4-Bromofluorobenzene	S	86.9	57.4-135		%REC	1	04/28/08 15:08
Surr: Dibromofluoromethane	S	110	63.5-139		%REC	1	04/28/08 15:08
Surr: 1,2-Dichloroethane-d4	S	114	51.7-162		%REC	1	04/28/08 15:08
Surr: Toluene-d8	S	103	66.6-143		%REC	1	04/28/08 15:08

CORROSIVITY BY PH

Method: SW9045C

Prep Date/Time:

Analyst: RJC

pH	A	8.7	0.1		pH Units	1	04/28/08 20:45
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PERCENT MOISTURE

Method: 2540B 18ED

Prep Date/Time:

Analyst: SMA

Percent Moisture	A	18	0.10		WT%	1	04/28/08 16:38
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ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-4
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-04
 Collection Date: 04/23/08 10:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PESTICIDES/PCBS

Method: SW8081A/8082

Prep Date/Time: 04/29/08 06:42 Analyst: JLW

4,4'-DDD	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
4,4'-DDE	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
4,4'-DDT	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aldrin	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Alpha-BHC	A	ND	0.0071		mg/Kg-dry	1	04/30/08 00:30
Beta-BHC	A	ND	0.018		mg/Kg-dry	1	04/30/08 00:30
Chlordane	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:30
delta-BHC	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Dieldrin	A	ND	0.0017		mg/Kg-dry	1	04/30/08 00:30
Endosulfan I	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Endosulfan II	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Endosulfan Sulfate	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Endrin	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Endrin Aldehyde	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Endrin Ketone	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Gamma-BHC	A	ND	0.0071		mg/Kg-dry	1	04/30/08 00:30
Heptachlor	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Heptachlor Epoxide	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Methoxychlor	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Toxaphene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1016	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1221	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1232	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1242	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1248	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1254	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1260	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1262	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Aroclor 1268	A	ND	0.035		mg/Kg-dry	1	04/30/08 00:30
Surr: Tetrachloro-m-xylene	S	70.0	5-165		%REC	1	04/30/08 00:30
Surr: Decachlorobiphenyl	S	95.0	5-222		%REC	1	04/30/08 00:30

TOTAL METALS

Method: SW6010B

Prep Date/Time: 04/25/08 10:00 Analyst: AVC

Arsenic	A	1.1	0.51		mg/Kg-dry	1	04/25/08 19:18
Barium	A	5.2	0.10		mg/Kg-dry	1	04/25/08 19:18
Cadmium	A	ND	0.10		mg/Kg-dry	1	04/25/08 19:18
Chromium	A	2.3	0.15		mg/Kg-dry	1	04/25/08 19:18
Lead	A	7.3	0.38		mg/Kg-dry	1	04/25/08 19:18
Selenium	A	ND	1.5		mg/Kg-dry	1	04/25/08 19:18
Silver	A	ND	0.51		mg/Kg-dry	1	04/25/08 19:18

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-4
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-04
 Collection Date: 04/23/08 10:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TOTAL METALS

Method: SW7471A

Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Mercury	A	ND	0.033		mg/Kg-dry	1	04/25/08 13:12
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Bis(2-ethylhexyl)phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Acenaphthene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Acenaphthylene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Acetophenone	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Aniline	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Anthracene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzidine	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
Benzo[a]anthracene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzo[a]pyrene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzo[b]fluoranthene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzo[g,h,i]perylene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzo[k]fluoranthene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Benzoic acid	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
Benzyl alcohol	A	ND	0.71		mg/Kg-dry	1	04/30/08 00:56
Bis(2-chloroethoxy)methane	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Bis(2-chloroethyl)ether	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2,2'-oxybis(1-chloropropane)	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Butyl benzyl phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Carbazole	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
4-Chloro-3-methylphenol	A	ND	0.71		mg/Kg-dry	1	04/30/08 00:56
4-Chloroaniline	A	ND	0.71		mg/Kg-dry	1	04/30/08 00:56
2-Chloronaphthalene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2-Chlorophenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
4-Chlorophenyl phenyl ether	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Chrysene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Dibenz[a,h]anthracene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Dibenzofuran	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
1,2-Dichlorobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
1,3-Dichlorobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
1,4-Dichlorobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
3,3'-Dichlorobenzidine	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
2,4-Dichlorophenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2,6-Dichlorophenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Diethyl phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Dimethyl phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2,4-Dimethylphenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-4
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-04
 Collection Date: 04/23/08 10:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Di-n-butyl phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Di-n-octyl phthalate	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
4,6-Dinitro-2-methylphenol	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
2,4-Dinitrophenol	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
2,4-Dinitrotoluene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2,6-Dinitrotoluene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
1,2-Diphenyl-hydrazine	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Fluoranthene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Fluorene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Hexachlorobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Hexachlorobutadiene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Hexachlorocyclopentadiene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Hexachloroethane	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Indeno[1,2,3cd]pyrene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Isophorone	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2-Methylnaphthalene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2-Methylphenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
3/4-Methylphenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2-Nitroaniline	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
3-Nitroaniline	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
4-Nitroaniline	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
2-Nitrophenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
4-Nitrophenol	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
N-Nitrosodi-n-propylamine	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
N-Nitrosodimethylamine	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
N-Nitrosodiphenylamine	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Naphthalene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Nitrobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Pentachlorophenol	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
Phenanthrene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Phenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Pyrene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Pyridine	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
1,2,4-Trichlorobenzene	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
2,4,5-Trichlorophenol	A	ND	1.7		mg/Kg-dry	1	04/30/08 00:56
2,4,6-Trichlorophenol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Total Cresol	A	ND	0.35		mg/Kg-dry	1	04/30/08 00:56
Surr: Nitrobenzene-d5	S	53.6	10-139		%REC	1	04/30/08 00:56
Surr: 2-Fluorobiphenyl	S	75.1	10-124		%REC	1	04/30/08 00:56
Surr: Terphenyl-d14	S	70.0	10-157		%REC	1	04/30/08 00:56
Surr: Phenol-d5	S	52.5	10-97.5		%REC	1	04/30/08 00:56

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
 Client Project: 4802-04 Kennedy / East Chicago, IN
 Client Sample ID: 4802-4
 Sample Description:
 Sample Matrix: Solid

Work Order / ID: ME0804959-04
 Collection Date: 04/23/08 10:30
 Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 04/29/08 13:13 Analyst: BEM

Surr: 2-Fluorophenol	S	56.6	10-91.4	%REC	1	04/30/08 00:56
Surr: 2,4,6-Tribromophenol	S	72.2	10-107	%REC	1	04/30/08 00:56

VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	0.054	mg/Kg-dry	1	04/28/08 15:43
Acrolein	A	ND	0.11	mg/Kg-dry	1	04/28/08 15:43
Acrylonitrile	A	ND	0.11	mg/Kg-dry	1	04/28/08 15:43
Benzene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromodichloromethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromoform	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromomethane	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
2-Butanone	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Carbon Disulfide	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Carbon tetrachloride	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chlorobenzene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chloroethane	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Chloroform	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chloromethane	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Dibromochloromethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1-Dichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,2-Dichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1-Dichloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
cis-1,2-Dichloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
trans-1,2-Dichloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,2-Dichloropropane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
cis-1,3-Dichloropropene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
trans-1,3-Dichloropropene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Ethylbenzene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
2-Hexanone	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
4-Methyl-2-Pentanone	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Methyl-t-Butyl Ether	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Methylene chloride	A	ND	0.021	mg/Kg-dry	1	04/28/08 15:43
Styrene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,1,2-Tetrachloroethane	A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
1,1,2,2-Tetrachloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Tetrachloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Toluene	A	0.012	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,1-Trichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,2-Trichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Trichloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43

ANALYTICAL RESULTS

Date: Thursday, May 01, 2008

Client: Vam Labs
Client Project: 4802-04 Kennedy / East Chicago, IN
Client Sample ID: 4802-4
Sample Description:
Sample Matrix: Solid

Work Order / ID: ME0804959-04
Collection Date: 04/23/08 10:30
Date Received: 04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Trichlorofluoromethane	A	ND	0.011		mg/Kg-dry	1	04/28/08 15:43
Vinyl Acetate	A	ND	0.011		mg/Kg-dry	1	04/28/08 15:43
Vinyl chloride	A	ND	0.011		mg/Kg-dry	1	04/28/08 15:43
m,p-Xylene	A	ND	0.0054		mg/Kg-dry	1	04/28/08 15:43
o-Xylene	A	ND	0.0054		mg/Kg-dry	1	04/28/08 15:43
Total Xylenes	A	ND	0.0054		mg/Kg-dry	1	04/28/08 15:43
Surr: 4-Bromofluorobenzene	S	82.7	57.4-135		%REC	1	04/28/08 15:43
Surr: Dibromofluoromethane	S	109	63.5-139		%REC	1	04/28/08 15:43
Surr: 1,2-Dichloroethane-d4	S	114	51.7-162		%REC	1	04/28/08 15:43
Surr: Toluene-d8	S	108	66.6-143		%REC	1	04/28/08 15:43

CORROSIVITY BY PH

Method: SW9045C

Prep Date/Time:

Analyst: RJC

pH	A	9.0	0.1		pH Units	1	04/28/08 20:45
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PERCENT MOISTURE

Method: 2540B 18ED

Prep Date/Time:

Analyst: GBZ

Percent Moisture	A	6.6	0.10		WT%	1	04/29/08 13:48
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FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable		
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	= Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	= Nanograms per Liter (ppt)
U	=	Undetected					
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)					
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL					
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL					
D	=	Surrogate recoveries are not calculated due to sample dilution					
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)					
E	=	Value above quantitation range					
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time					
I	=	Matrix Interference					
R	=	RPD outside accepted recovery limits					
S	=	Spike recovery outside recovery limits					
Surr	=	Surrogate					
DF	=	Dilution Factor	RL	=	Reporting Limit	ST	= Sample Type
						MDL	= Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #9980367110)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD	Kentucky Division - Louisville, KY	New Castle Division - New Castle, PA
Camp Hill Division - Camp Hill, PA	Kentucky Division (Sat) - Evansville, IN	Pittsburgh Division - Warrendale, PA
Camp Hill Division (SC) - Pittston, PA	Kentucky Division (Sat) - Lexington, KY	Richmond Division - Richmond, VA
Chicagoland Division - Merrillville, IN	Kentucky Division (Sat) - Paducah, KY	South Carolina Division - New Ellenton, SC
Chicagoland Division (SC) - Indianapolis, IN	Knoxville Division - Maryville, TN	South Jersey Division - Turnersville, NJ
Corona Division - Corona, CA	Massachusetts Division - Marlborough, MA	Southern Headquarters - Poquoson, VA
Erie Division - Erie, PA	Microbac Corporate Office - Wexford, PA	Southern Testing Division - Wilson, NC
Fayetteville Division - Fayetteville, NC	Microbac NY - Cortland Office - Cortland, NY	Southern Testing Division (Sat) - Greensboro, NC
Hauser Division - Boulder, CO	Microbac NY - Waverly Office - Waverly, NY	Venice Division - Venice, FL

Microbac®

COOLER INSPECTION

Date: Thursday, May 01, 2008

Client Name **Vam Labs**

Date / Time Received: **4/24/2008 2:15:00 PM**

Work Order Number **ME0804959**

Received by DPP

Checklist completed by DPP 4/24/2008 2:29:48 PM

Reviewed by RJM 4/28/2008 11:53:33 AM

Carrier name Client Delivered

After-Hour Arrival?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included sufficient client identification?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included sufficient sample collector information?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included a sample description?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody identified the appropriate matrix?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included date of collection?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included time of collection?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody identified the appropriate number of containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
If samples are preserved, are the preservatives identified?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples properly preserved?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

If No, adjusted by?

Date/Time

Chain of custody included the requested analyses?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Container/Temp Blank temperatures

Cooler

Temp

1 5 °C

VOA vials for aqueous samples have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments
ME0804959-01A	4802-1	Report in Dry Weight
ME0804959-02A	4802-2	Report in Dry Weight
ME0804959-03A	4802-3	Report in Dry Weight
ME0804959-04A	4802-4	Report in Dry Weight

